

Industrial Diffused Silicon Pressure Transmitters

Description

XDB310 series of pressure transmitters utilizes imported high-precision and high-stability diffused silicon sensor with SS316L isolation diaphragm, offering pressure measurements for a wide range of corrosive media compatible with SS316L. With laser resistance adjustment and temperature compensation, they meet stringent performance requirements across various applications with reliable and accurate measurements.

Features

- ◆ High accuracy to 0.5%
- ◆ Affordable price & economical solutions
- ◆ Strong anti-interference & good long-term stability
- ◆ Excellent corrosion resistance and reliability
- ◆ Provide OEM, flexible customization



Typical applications

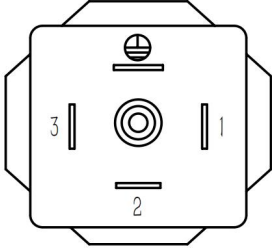
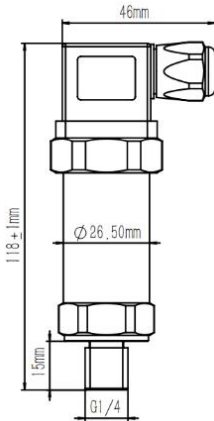
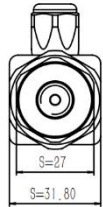
- ◆ Energy and water treatment systems
- ◆ Widely used in the pressure measurement and control of corrosive gases, liquids and steam in the fields of petroleum, chemical industry, metallurgy, electric power, medicine, food, etc
- ◆ Suitable for the production and measurement of medical and food equipment

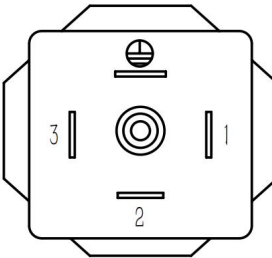
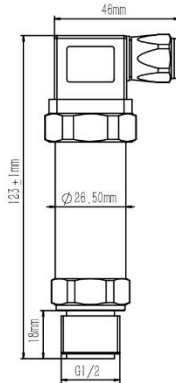



Parameters

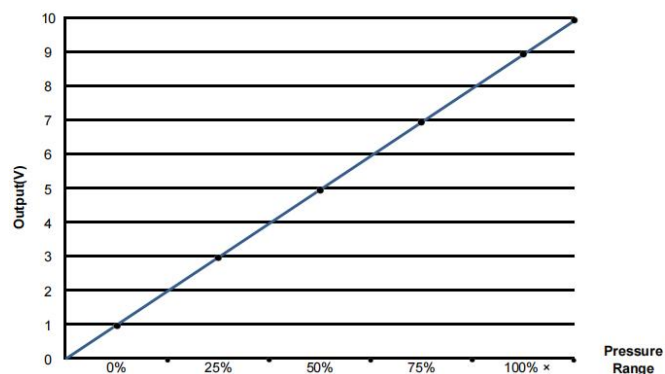
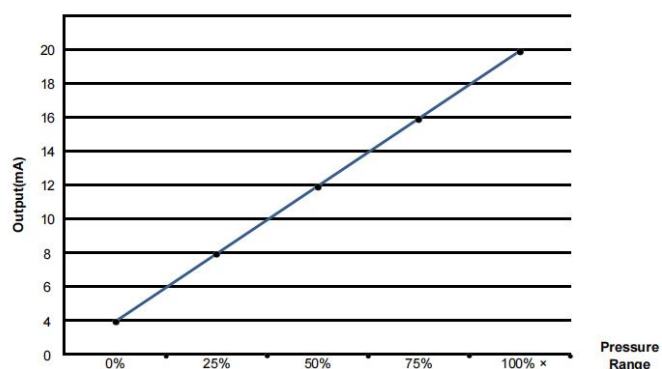
Pressure range	-1~0~600 bar	Accuracy	±0.5%FS / ±1.0%FS
Input voltage	DC 9~36(24)V, 5V, 3.3V	Long-term stability	≤±0.2% FS/year
Output signal	4-20mA / 0-10V / others	Response time	≤3ms
Thread	G1/2, G1/4	Overload pressure	150% FS
Electrical connector	Hirschmann DIN43650A	Burst pressure	300% FS
Insulation resistance	>100 MΩ at 500V	Cycle life	500,000 times
Operating temperature	-40 ~ 85 °C	Housing material	304 stainless steel
Compensation temperature	-20 ~ 80 °C	Diaphragm material	316L stainless steel
Operating current	≤3mA	Protection class	IP65
Temperature drift (zero&sensitivity)	≤±0.03%FS/ °C	Weight	≈0.25kg

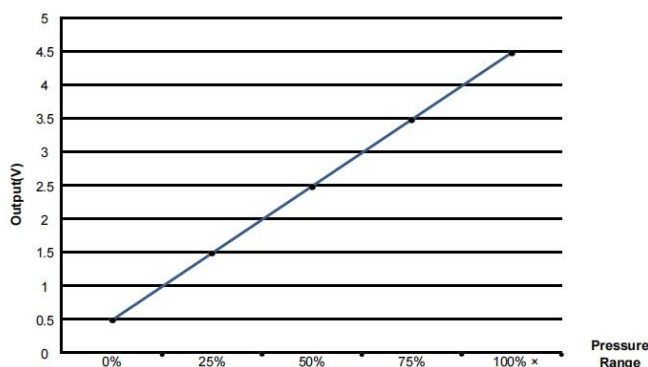
Dimensions(mm) & electrical connection

Hirschmann DIN43650A		XDB310-G1-W6	
	4-20mA: Red: Supply+① Black: Output+②		
	0-10V: Red: Supply+① Black: GND② White: Output+③		

Hirschmann DIN43650A		XDB310-G3-W6	
	4-20mA: Red: Supply+① Black: Output+②		
	0-10V: Red: Supply+① Black: GND② White: Output+③		

Output Curve





How to order

E.g. **XDB310- 0.6M - 01 - 2 - A - G1 - W6 - b - 03 - Oil**

1	Pressure range	0.6M
	M(Mpa) B(Bar) P(Psi) X(Others on request)	
2	Pressure type	01
	01(Gauge) 02(Absolute)	
3	Supply voltage	2
	0(5VDC) 1(12VDC) 2(9~36(24)VDC) 3(3.3VDC) X(Others on request)	
4	Output signal	A
	A(4-20mA) B(0-5V) C(0.5-4.5V) D(0-10V) E(0.4-2.4V) F(1-5V) G(I ² C) X(Others on request)	
5	Pressure connection	G1
	G1(G1/4) G3(G1/2) X(Others on request)	
6	Electrical connection	W6
	W6(Hirschmann DIN43650A) X(Others on request)	
7	Accuracy	b
	a(0.2% FS) b(0.5% FS) c(1.0% FS) X(Others on request)	
8	Paired cable	03
	01(0.3m) 02(0.5m) 03(1m) X(Others on request)	
9	Pressure medium	Oil
	X(Please note)	

Notes:

1) Please connect the pressure transmitter to the opposite connection for different electric connector.

If the pressure transmitters come with cable, please refer to the right color.

2) If you have other requirements, please contact us and make notes in the order.

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